

# Certificate of Quality

The PVDF Membrane Cartridge Filters have been manufactured in a **mdi** facility in compliance with **ISO 9001** regulations using **validated production processes**.

## **AseptiSure WS PVDF Membrane Cartridge Filter**

Catalog No. : CWH15336E0SS101  
 Type : CPWS  
 Pore Size : 0.1 µm (0.2 µm + 0.1 µm)  
 Lot Number : CV5994L SI.No. 024  
 Manufacturing Date : 2024 - 12  
 Expiry Date : 2029 - 12

### SPECIFICATION

<b>Length</b>	5"
<b>Filter Media</b>	Hydrophilic PVDF Membrane
<b>Drainage Layers</b>	Polyester
<b>Plastic Components</b>	Polypropylene
<b>Differential Pressure</b>	< 3.5 Kg/cm <sup>2</sup> (3.43 Bar) at 25 °C
<b>Maximum operating Temperature</b>	80 °C at < 2 Kg/cm <sup>2</sup> (1.96 Bar)
<b>Reverse Pressure</b>	< 0.7 Kg/cm <sup>2</sup> (0.69 Bar) at 25 °C
<b>Sterilization</b>	By Autoclaving or Steam-in-place (SIP)

### LOT RELEASE CRITERIA

#### 100% Integrity Tested

: The cartridge filter has been tested for integrity by Air Diffusion Flow Test and Bubble Point Test using purified water.  
 Diffusion flows were: ≤ 15 ml/min @ 3.52 kg/cm<sup>2</sup> (3.45 Bar)  
 Bubble point was: ≥ 70 psi (4.83 Bar).

#### Typical Water Flow Rate

: 6.0 lpm @ 0.70 Kg/cm<sup>2</sup> (0.69 Bar) @ 27 °C

#### Microbial Challenge Test

: Retains ≥ 10<sup>7</sup> organisms/cm<sup>2</sup> of *Acholeplasma laidlawii* (ATCC 23206).

### VALIDATED FOR

#### Bubble point (50% IPA)

: The filter is certified/validated for integrity by Bubble point test using 50% IPA/Water solution. Bubble point ≥ 28 psi (1.93 Bar)

#### Heat Stability

: Maintains integrity after 3 Steam sterilization cycles at 135 °C for 30 minutes each.

#### Extractable

: Within limits as specified in USP.

#### Oxidizable matter

: Passes test as per USP.

#### Bacterial Endotoxin

: Filtrate meets the USP requirements for Sterile WFI of ≤ 0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL) test.

#### Biosafety

: Passes Biological Reactivity Tests, *In Vivo* for Class VI plastic as described in USP <88>.

#### Cytotoxicity

: Passes Biological Reactivity Tests, *In Vitro* as described in USP <87>.

#### Indirect Food Additives

: Passes as per FDA 21CFR 177.1520(a)1(i).

#### Particle Release

: Passes test as per USP <788>, "Particulate matter in Injections".

#### Fiber Release

: Complies with FDA 21CFR 210.3(b)(6).

#### Total Organic Carbon

: Meets USP <643> limit of 500 ppb for total organic carbon after flushing specified volume of water for injection.

#### Conductivity

: Meets USP <645> limit of 1.3 µS/cm at 25 °C for water conductivity after flushing specified volume of water for injection.

### CUSTOMER SUPPORT

**mdi** offers its unique interdisciplinary skills to provide solutions to specific problems. Please contact our factory or the local application specialist.

T. No.: COQ/CAR/010-04



Head of Quality Assurance

Issue Date: 17-Dec-24

### **Advanced Microdevices Pvt. Ltd.**

Jawahargarh Road,  
 Village-Tepla, Ambala, INDIA.  
 Tel: +91-171-2699290/2699274  
 Website: www.mdimembrane.com  
 Email: info@mdimembrane.com

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